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10/222,465 17 August 2002 (17.08.2002) US

(71) Applicant (for all designated States except US): **3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FLEMING, Robert**

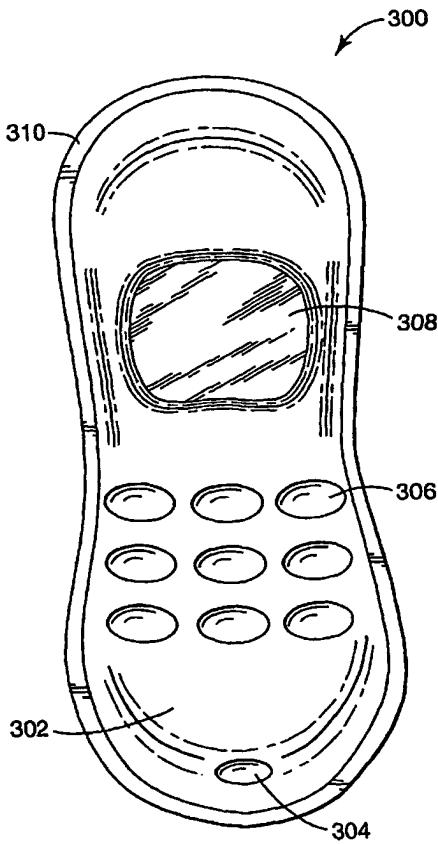
J., [US/US]; 2005 North Park Drive, Saint Paul, MN 55119 (US). CONDO, Peter D., [US/US]; 4388 Jackpine Trail, Lake Elmo, MN 55042 (US). ANDERSON, Edward J., [US/US]; 409 192nd Avenue, Somerset, WI 54025 (US). BRIGHT, Clark I., [US/US]; 1893 North Whispering Bells Drive, Tucson, AZ 85745 (US).

(74) Agents: **JENSEN, Stephen C., et al.; Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).**

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ,

*[Continued on next page]*

(54) Title: FLEXIBLE, FORMABLE CONDUCTIVE FILMS



(57) Abstract: Electrically conductive films comprising a flexible support, an extensible metal or metal alloy layer, and a crosslinked polymeric protective layer have at least one permanently deformed curved region. The films can be light transmissive and can have regions of compound curvature, and the metal or metal alloy layer can be substantially continuous. The films have reduced susceptibility to fracture or corrosion compared to commercially available electromagnetic interference (EMI) shielding films.

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- (84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

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*PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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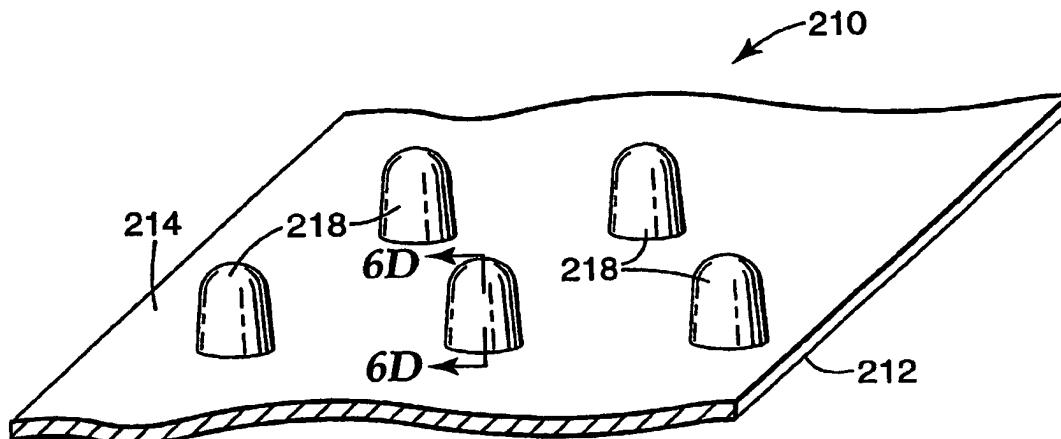
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[Continued on next page]

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H05K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 965 408 A (CHAPMAN DWIGHT E ET AL) 23 October 1990 (1990-10-23) column 3, line 7 -column 4, line 33 column 6, line 47-57; figure 2 ----	1,17
A	EP 0 873 839 A (TOKIN CORP) 28 October 1998 (1998-10-28) column 6, line 13-32; figure 5 ----	1,17

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Schneider, F

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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			JP	10084196 A	31-03-1998
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